

RAW SEQUENCE LISTING

EF8

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 09/840,722C

Source: FW/6

Date Processed by STIC: 4/12/07

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/840,722c

CRF Edit Date: 4/12/07
Edited by: rw

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

✓
___ Other: Corrected <1207 response



IFW16

RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 16:54:14

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt

Output Set: N:\CRF4\04122007\I840722C.raw

3 <110> APPLICANT: MACLEOD, MICHAEL C.
 4 ALDAZ, MARCELO C.
 5 GADDIS, SARA
 7 <120> TITLE OF INVENTION: COMBINATORIAL OLIGONUCLEOTIDE PCR: A METHOD FOR RAPID,
 GLOBAL
 8 EXPRESSION ANALYSIS
 10 <130> FILE REFERENCE: UTSC:607USC1
 12 <140> CURRENT APPLICATION NUMBER: 09/840,722C
 13 <141> CURRENT FILING DATE: 2001-04-23
 15 <150> PRIOR APPLICATION NUMBER: 09/414,847
 16 <151> PRIOR FILING DATE: 1999-10-08
 18 <160> NUMBER OF SEQ ID NOS: 32
 20 <170> SOFTWARE: PatentIn version 3.3
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 24 <212> TYPE: DNA
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 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Synthetic primer
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 40 <223> OTHER INFORMATION: Synthetic primer
 42 <400> SEQUENCE: 2 12
 43 cggtgatgca tc
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 20
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Artificial
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: Synthetic primer
 54 <400> SEQUENCE: 3 20
 55 gctgtctaga cgcattgccca
 58 <210> SEQ ID NO: 4
 59 <211> LENGTH: 58
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Artificial
 63 <220> FEATURE:
 64 <223> OTHER INFORMATION: Synthetic primer
 66 <400> SEQUENCE: 4

see p 6

RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 16:54:14

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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67 gctgtctaga cgcattgccca agctagccac gcagtcacaac gagatcgatg catcaccg      58
70 <210> SEQ ID NO: 5
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72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Synthetic primer
78 <400> SEQUENCE: 5
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82 <210> SEQ ID NO: 6
83 <211> LENGTH: 33
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Synthetic primer
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94 <210> SEQ ID NO: 7
95 <211> LENGTH: 63
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Synthetic primer
102 <400> SEQUENCE: 7
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105 ccg      63
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110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Synthetic primer
116 <400> SEQUENCE: 8
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119 gctatgtccc aagagccata aggggggtggg aattggggag ggagaaagg tagttcaaag      120
121 agtctgtctt gagatctgat tttttccccc tttacctagc tgtgccccct ctgggttattt      180
123 atttccttag tgccaggagg gcacagcagg ggagccctga tttttaataa atccggaatt      240
125 gtatttatt      249
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129 <211> LENGTH: 11
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial
133 <220> FEATURE:
134 <223> OTHER INFORMATION: Synthetic primer
137 <220> FEATURE:
138 <221> NAME/KEY: modified_base
139 <222> LOCATION: (4)..(8)
140 <223> OTHER INFORMATION: n = a, c, g, or t/u
142 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 16:54:14

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (4)..(8)
145 <223> OTHER INFORMATION: n is a, c, g, or t
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W--> 148 gacnnnnngt c 11
151 <210> SEQ ID NO: 10
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153 <212> TYPE: DNA
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157 <223> OTHER INFORMATION: Synthetic primer
160 <220> FEATURE:
161 <221> NAME/KEY: modified_base
162 <222> LOCATION: (1)..(7)
163 <223> OTHER INFORMATION: n = a, c, g or t/u
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (1)..(1)
168 <223> OTHER INFORMATION: n is a, c, g, or t
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (4)..(7)
173 <223> OTHER INFORMATION: n is a, c, g, or t
175 <220> FEATURE:
176 <221> NAME/KEY: modified_base
177 <222> LOCATION: (11)..(11)
178 <223> OTHER INFORMATION: n = p
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (11)..(11)
183 <223> OTHER INFORMATION: n is a, c, g, or t
185 <220> FEATURE:
186 <221> NAME/KEY: modified_base
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188 <223> OTHER INFORMATION: n = a, c, g or t/u
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (14)..(14)
193 <223> OTHER INFORMATION: n is a, c, g, or t
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201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Synthetic primer
208 <220> FEATURE:
209 <221> NAME/KEY: modified_base

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RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 16:54:14

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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210 <222> LOCATION: (4)..(9)
211 <223> OTHER INFORMATION: n = a, c, g, or t/u
213 <220> FEATURE:
214 <221> NAME/KEY: misc_feature
215 <222> LOCATION: (4)..(9)
216 <223> OTHER INFORMATION: n is a, c, g, or t
218 <400> SEQUENCE: 11
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224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial
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228 <223> OTHER INFORMATION: Synthetic primer
231 <220> FEATURE:
232 <221> NAME/KEY: modified_base
233 <222> LOCATION: (4)..(8)
234 <223> OTHER INFORMATION: n = a, c, g or t/u
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (4)..(8)
239 <223> OTHER INFORMATION: n is a, c, g, or t
241 <400> SEQUENCE: 12
W--> 242 gccnnnnnngg c 11
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247 <212> TYPE: DNA
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251 <223> OTHER INFORMATION: Synthetic primer
254 <220> FEATURE:
255 <221> NAME/KEY: modified_base
256 <222> LOCATION: (4)..(7)
257 <223> OTHER INFORMATION: n = a, c, g or t/u
259 <220> FEATURE:
260 <221> NAME/KEY: misc_feature
261 <222> LOCATION: (4)..(7)
262 <223> OTHER INFORMATION: n is a, c, g, or t
264 <400> SEQUENCE: 13
W--> 265 gatnnnnnatc 10
268 <210> SEQ ID NO: 14
269 <211> LENGTH: 11
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Synthetic primer
277 <220> FEATURE:
278 <221> NAME/KEY: modified_base
279 <222> LOCATION: (3)..(9)

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RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 16:54:14

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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280 <223> OTHER INFORMATION: n = a, c, g, or t/u
282 <220> FEATURE:
283 <221> NAME/KEY: misc_feature
284 <222> LOCATION: (3)..(9)
285 <223> OTHER INFORMATION: n is a, c, g, or t
287 <400> SEQUENCE: 14
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291 <210> SEQ ID NO: 15
292 <211> LENGTH: 11
293 <212> TYPE: DNA
294 <213> ORGANISM: Artificial
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297 <223> OTHER INFORMATION: Synthetic primer
300 <220> FEATURE:
301 <221> NAME/KEY: modified_base
302 <222> LOCATION: (4)..(8)
303 <223> OTHER INFORMATION: n = a, c, g, or t/u
305 <220> FEATURE:
306 <221> NAME/KEY: misc_feature
307 <222> LOCATION: (4)..(8)
308 <223> OTHER INFORMATION: n is a, c, g, or t
310 <400> SEQUENCE: 15
W--> 311 gcannnnntg c 11
314 <210> SEQ ID NO: 16
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316 <212> TYPE: DNA
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320 <223> OTHER INFORMATION: Synthetic primer
323 <220> FEATURE:
324 <221> NAME/KEY: modified_base
325 <222> LOCATION: (4)..(9)
326 <223> OTHER INFORMATION: n = a, c, g, or t/u
328 <220> FEATURE:
329 <221> NAME/KEY: misc_feature
330 <222> LOCATION: (4)..(9)
331 <223> OTHER INFORMATION: n is a, c, g, or t
333 <400> SEQUENCE: 16
W--> 334 ccannnnnnt gg 12
337 <210> SEQ ID NO: 17
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339 <212> TYPE: DNA
340 <213> ORGANISM: Artificial
342 <220> FEATURE:
343 <223> OTHER INFORMATION: Synthetic primer
346 <220> FEATURE:
347 <221> NAME/KEY: modified_base
348 <222> LOCATION: (4)..(9)
349 <223> OTHER INFORMATION: n = a, c, g, or t/u

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RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/09/840,722C

DATE: 04/12/2007
 TIME: 16:54:15

FYI

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt
 Output Set: N:\CRF4\04122007\I840722C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 4,5,6,7,8
 Seq#:10; N Pos. 1,4,5,6,7,11,14
 Seq#:11; N Pos. 4,5,6,7,8,9
 Seq#:12; N Pos. 4,5,6,7,8
 Seq#:13; N Pos. 4,5,6,7
 Seq#:14; N Pos. 3,4,5,6,7,8,9
 Seq#:15; N Pos. 4,5,6,7,8
 Seq#:16; N Pos. 4,5,6,7,8,9
 Seq#:17; N Pos. 4,5,6,7,8,9
 Seq#:18; N Pos. 4,5,6,7,8
 Seq#:19; N Pos. 6,7,8,9,10
 Seq#:20; N Pos. 4,5,6,7
 Seq#:21; N Pos. 3,4,5,6,7,8,9
 Seq#:22; N Pos. 4,5,6,7,8
 Seq#:23; N Pos. 4,5,6,7
 Seq#:24; N Pos. 5,6,7,8,9
 Seq#:25; N Pos. 4,5,6,7,8,9,10,11,12
 Seq#:26; N Pos. 4,5,6,7
 Seq#:31; N Pos. 17,18,19,20
 Seq#:32; N Pos. 17,18,19

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
 Seq#:28,29,30,31,32

VERIFICATION SUMMARY

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 16:54:15

Input Set : N:\EFS\04_12_07\09840722c_efs\PTO.AMC.txt

Output Set: N:\CRF4\04122007\I840722C.raw

L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:449 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

**Raw Sequence Listing before editing
(for reference only)**



IFW16

RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 14:34:20

Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt

Output Set: N:\CRF4\04122007\I840722C.raw

add this
↓

3 <110> APPLICANT: MACLEOD, MICHAEL C.
 4 ALDAZ, MARCELO C.
 5 GADDIS, SARA
 7 <120> TITLE OF INVENTION: COMBINATORIAL OLIGONUCLEOTIDE PCR: A METHOD FOR RAPID, GLOBAL
 9 <130> FILE REFERENCE: UTSC:607USC1
 11 <140> CURRENT APPLICATION NUMBER: 09/840,722C
 12 <141> CURRENT FILING DATE: 2001-04-23
 14 <150> PRIOR APPLICATION NUMBER: 09/414,847
 15 <151> PRIOR FILING DATE: 1999-10-08
 17 <160> NUMBER OF SEQ ID NOS: 32
 19 <170> SOFTWARE: PatentIn version 3.3

*EXPRESSION
ANALYSIS*

21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 12
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: Synthetic primer
 29 <400> SEQUENCE: 1

**Does Not Comply
Corrected Diskette Needed**

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33 <210> SEQ ID NO: 2

34 <211> LENGTH: 12

35 <212> TYPE: DNA

36 <213> ORGANISM: Artificial

38 <220> FEATURE:

39 <223> OTHER INFORMATION: Synthetic primer

41 <400> SEQUENCE: 2

42 cggtgatgca tc 12

45 <210> SEQ ID NO: 3

46 <211> LENGTH: 20

47 <212> TYPE: DNA

48 <213> ORGANISM: Artificial

50 <220> FEATURE:

51 <223> OTHER INFORMATION: Synthetic primer

53 <400> SEQUENCE: 3

54 gctgtctaga cgcatgccca 20

57 <210> SEQ ID NO: 4

58 <211> LENGTH: 58

59 <212> TYPE: DNA

60 <213> ORGANISM: Artificial

62 <220> FEATURE:

63 <223> OTHER INFORMATION: Synthetic primer

65 <400> SEQUENCE: 4

66 gctgtctaga cgcatgccca agctagccac gcagtccaac gagatcgatg catcaccg 58

RAW SEQUENCE LISTING

DATE: 04/12/2007

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Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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69 <210> SEQ ID NO: 5
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75 <223> OTHER INFORMATION: Synthetic primer
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81 <210> SEQ ID NO: 6
82 <211> LENGTH: 33
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial
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89 <400> SEQUENCE: 6
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93 <210> SEQ ID NO: 7
94 <211> LENGTH: 63
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial
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99 <223> OTHER INFORMATION: Synthetic primer
101 <400> SEQUENCE: 7
102 gctgtctaga cgcattgccca acacaagcta gccacgcagt ccaacgagat cgatgcatca 60
104 ccg 63
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 249
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial
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113 <223> OTHER INFORMATION: Synthetic primer
115 <400> SEQUENCE: 8
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118 gctatgtccc aagagccata aggggggtggg aattggggag ggagaaaggg tagttcaaag 120
120 agtctgtctt gagatctgat tttttccccc tttacctagc tgtgccccct ctgggttattt 180
122 atttccttag tgccaggagg gcacagcagg ggagccctga tttttaataa atccggaatt 240
124 gtattttatt 249
127 <210> SEQ ID NO: 9
128 <211> LENGTH: 11
129 <212> TYPE: DNA
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133 <223> OTHER INFORMATION: Synthetic primer
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137 <221> NAME/KEY: modified_base
138 <222> LOCATION: (4)..(8)
139 <223> OTHER INFORMATION: n = a, c, g, or t/u
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature

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RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 14:34:20

Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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143 <222> LOCATION: (4)..(8)
144 <223> OTHER INFORMATION: n is a, c, g, or t
146 <400> SEQUENCE: 9
W--> 147 gacnnnnngt c 11
150 <210> SEQ ID NO: 10
151 <211> LENGTH: 14
152 <212> TYPE: DNA
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156 <223> OTHER INFORMATION: Synthetic primer
159 <220> FEATURE:
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161 <222> LOCATION: (1)..(7)
162 <223> OTHER INFORMATION: n = a, c, g or t/u
164 <220> FEATURE:
165 <221> NAME/KEY: misc_feature
166 <222> LOCATION: (1)..(1)
167 <223> OTHER INFORMATION: n is a, c, g, or t
169 <220> FEATURE:
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171 <222> LOCATION: (4)..(7)
172 <223> OTHER INFORMATION: n is a, c, g, or t
174 <220> FEATURE:
175 <221> NAME/KEY: modified_base
176 <222> LOCATION: (11)..(11)
177 <223> OTHER INFORMATION: n = p
179 <220> FEATURE:
180 <221> NAME/KEY: misc_feature
181 <222> LOCATION: (11)..(11)
182 <223> OTHER INFORMATION: n is a, c, g, or t
184 <220> FEATURE:
185 <221> NAME/KEY: modified_base
186 <222> LOCATION: (14)..(14)
187 <223> OTHER INFORMATION: n = a, c, g or t/u
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190 <221> NAME/KEY: misc_feature
191 <222> LOCATION: (14)..(14)
192 <223> OTHER INFORMATION: n is a, c, g, or t
194 <400> SEQUENCE: 10
W--> 195 nacnnnnngta nycn 14
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 12
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial
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204 <223> OTHER INFORMATION: Synthetic primer
207 <220> FEATURE:
208 <221> NAME/KEY: modified_base
209 <222> LOCATION: (4)..(9)

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RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 14:34:20

Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt

Output Set: N:\CRF4\04122007\I840722C.raw

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210 <223> OTHER INFORMATION: n = a, c, g, or t/u
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (4)..(9)
215 <223> OTHER INFORMATION: n is a, c, g, or t
217 <400> SEQUENCE: 11
W--> 218 cgannnnnt gc 12
221 <210> SEQ ID NO: 12
222 <211> LENGTH: 11
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Synthetic primer
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236 <221> NAME/KEY: misc_feature
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238 <223> OTHER INFORMATION: n is a, c, g, or t
240 <400> SEQUENCE: 12
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247 <213> ORGANISM: Artificial
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250 <223> OTHER INFORMATION: Synthetic primer
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258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (4)..(7)
261 <223> OTHER INFORMATION: n is a, c, g, or t
263 <400> SEQUENCE: 13
W--> 264 gatnnnnatc 10
267 <210> SEQ ID NO: 14
268 <211> LENGTH: 11
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Synthetic primer
276 <220> FEATURE:
277 <221> NAME/KEY: modified_base
278 <222> LOCATION: (3)..(9)
279 <223> OTHER INFORMATION: n = a, c, g, or t/u

```

RAW SEQUENCE LISTING

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 14:34:20

Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt

Output Set: N:\CRF4\04122007\I840722C.raw

```

281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: (3)..(9)
284 <223> OTHER INFORMATION: n is a, c, g, or t
286 <400> SEQUENCE: 14
W--> 287 ccnnnnnnng g 11
290 <210> SEQ ID NO: 15
291 <211> LENGTH: 11
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Synthetic primer
299 <220> FEATURE:
300 <221> NAME/KEY: modified_base
301 <222> LOCATION: (4)..(8)
302 <223> OTHER INFORMATION: n = a, c, g, or t/u
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (4)..(8)
307 <223> OTHER INFORMATION: n is a, c, g, or t
309 <400> SEQUENCE: 15
W--> 310 gcannnnntg c 11
313 <210> SEQ ID NO: 16
314 <211> LENGTH: 12
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Synthetic primer
322 <220> FEATURE:
323 <221> NAME/KEY: modified_base
324 <222> LOCATION: (4)..(9)
325 <223> OTHER INFORMATION: n = a, c, g, or t/u
327 <220> FEATURE:
328 <221> NAME/KEY: misc_feature
329 <222> LOCATION: (4)..(9)
330 <223> OTHER INFORMATION: n is a, c, g, or t
332 <400> SEQUENCE: 16
W--> 333 ccannnnnnt gg 12
336 <210> SEQ ID NO: 17
337 <211> LENGTH: 12
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Synthetic primer
345 <220> FEATURE:
346 <221> NAME/KEY: modified_base
347 <222> LOCATION: (4)..(9)
348 <223> OTHER INFORMATION: n = a, c, g, or t/u
350 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/840,722C

DATE: 04/12/2007
TIME: 14:34:21

Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt
Output Set: N:\CRF4\04122007\I840722C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 4,5,6,7,8
Seq#:10; N Pos. 1,4,5,6,7,11,14
Seq#:11; N Pos. 4,5,6,7,8,9
Seq#:12; N Pos. 4,5,6,7,8
Seq#:13; N Pos. 4,5,6,7
Seq#:14; N Pos. 3,4,5,6,7,8,9
Seq#:15; N Pos. 4,5,6,7,8
Seq#:16; N Pos. 4,5,6,7,8,9
Seq#:17; N Pos. 4,5,6,7,8,9
Seq#:18; N Pos. 4,5,6,7,8
Seq#:19; N Pos. 6,7,8,9,10
Seq#:20; N Pos. 4,5,6,7
Seq#:21; N Pos. 3,4,5,6,7,8,9
Seq#:22; N Pos. 4,5,6,7,8
Seq#:23; N Pos. 4,5,6,7
Seq#:24; N Pos. 5,6,7,8,9
Seq#:25; N Pos. 4,5,6,7,8,9,10,11,12
Seq#:26; N Pos. 4,5,6,7
Seq#:31; N Pos. 17,18,19,20
Seq#:32; N Pos. 17,18,19

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32

VERIFICATION SUMMARY

DATE: 04/12/2007

PATENT APPLICATION: US/09/840,722C

TIME: 14:34:21

Input Set : N:\EFS\04_12_07\09840722c_efs\UTSC607USC1.txt

Output Set: N:\CRF4\04122007\I840722C.raw

L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0